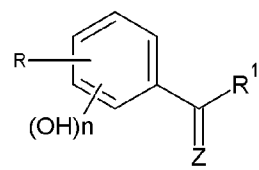


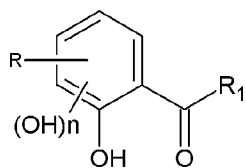
REPLACEMENT SHEET



Z	(OH)n	R	R ₁
O	2	H	CH ₃
S	2,3-Dihydroxy	CH ₃	C ₂ H ₅
N-NH-CO-NH ₂	2,4-Dihydroxy	Alkyl	Alkyl
	2,5-Dihydroxy	Cyclo-Alkyl	Aryl
	2,6-Dihydroxy	Aryl	
	2,4,6-Trihydroxy	Cl	
	2,3,4-Trihydroxy	Br	
	2,3,5-Trihydroxy	NH ₂	
	2,3,6-Trihydroxy	NH-Alkyl	
	2,4,5-Trihydroxy	N(Alkyl) ₂	
		O-Alkyl	
		S-Alkyl	

Figure 1. Hydroxyaryl Alkyl Ketone MMP Inhibitors

REPLACEMENT SHEET



R	R ¹
H	CH ₃
CH ₃	C ₂ H ₅
Alkyl	
Cyclo-Alkyl	
Aryl	
Cl	
Br	
NH ₂	
-NH-Alkyl	
-N(Alkyl) ₂	
-O-Alkyl	
-S-Alkyl	

Figure 2. Hydroxy Acetophenone and Hydroxy Propiophenone MMP Inhibitors

REPLACEMENT SHEET

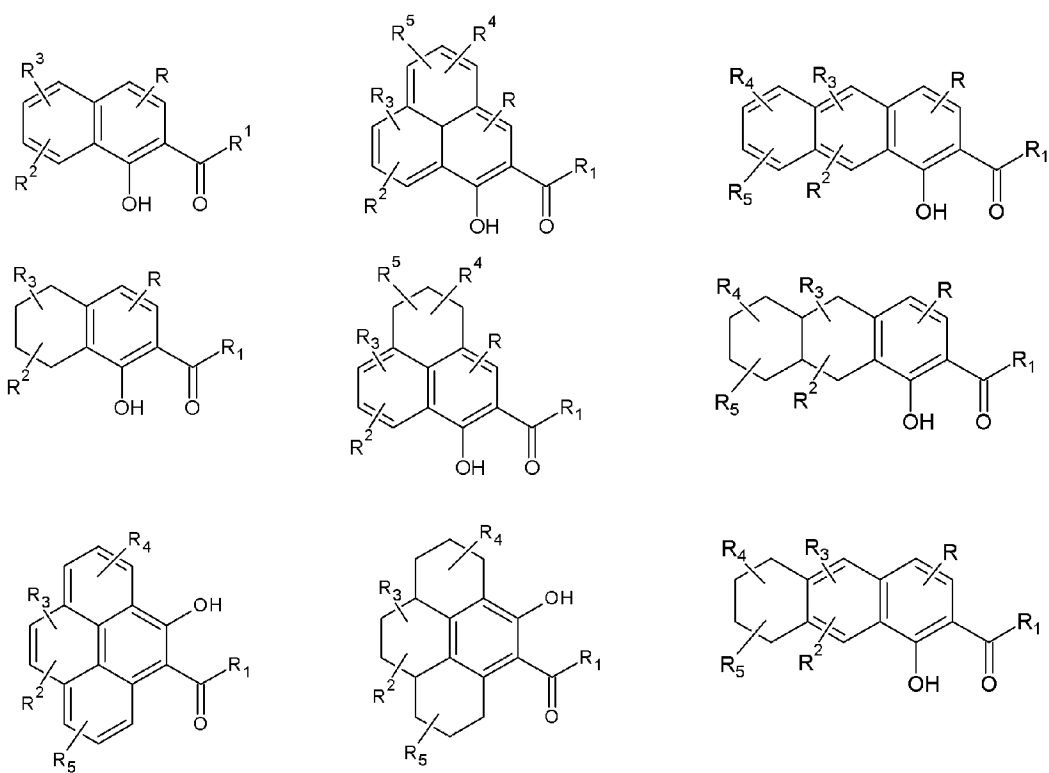
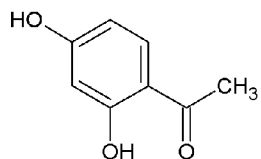
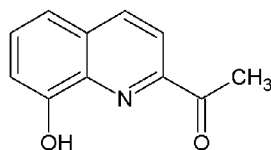


Figure 3. Hydroxyaryl Alkyl Ketone MMP Inhibitors with Additional Cyclic Rings

REPLACEMENT SHEET



2,4 - Dihydroxy Acetophenone



2 - Acetyl - 8 - Hydroxyquinoline

Figure 4. 2,4- Dihydrox Acetophenone and 2-Acetyl-8-Hydroxyquinoline MMP Inhibitors

REPLACEMENT SHEET



Figure 5. N - Heterocyclic Alkyl Ketone MMP Inhibitors

REPLACEMENT SHEET

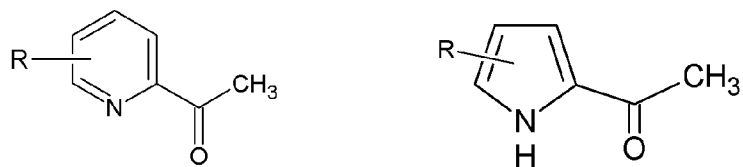


Figure 6. 2-Acetyl Substituted N-Heterocyclic MMP Inhibitors

REPLACEMENT SHEET

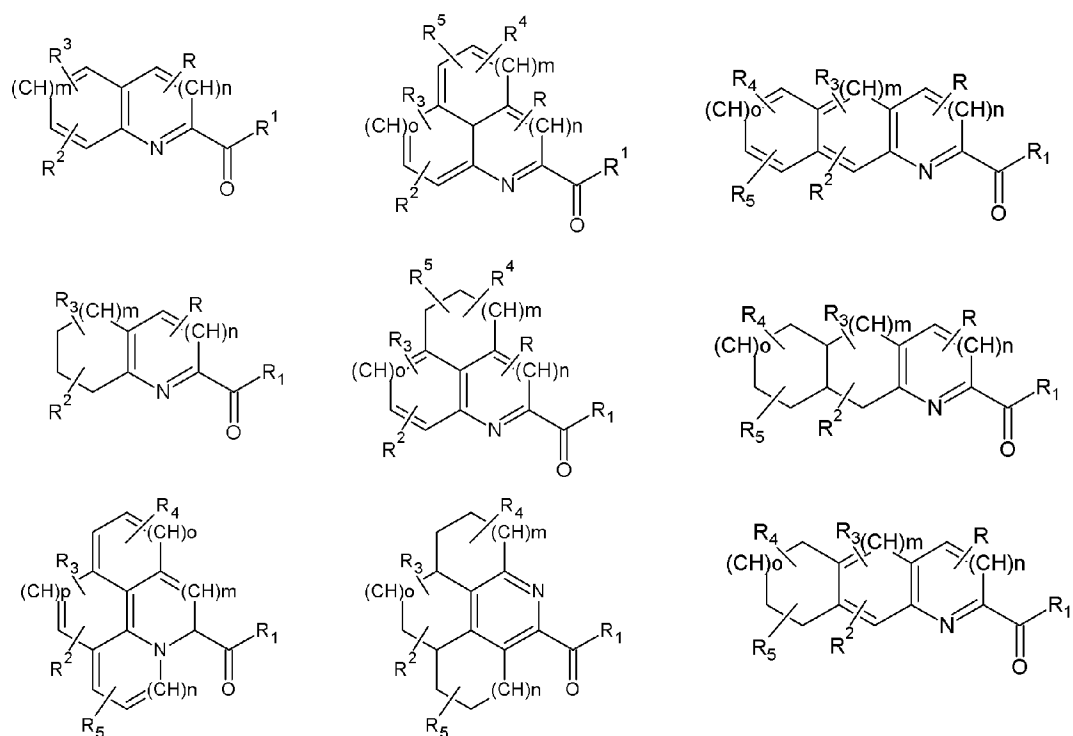


Figure 7. N - Heterocyclic Alkyl Ketone MMP Inhibitors with Additional Cyclic Rings

REPLACEMENT SHEET

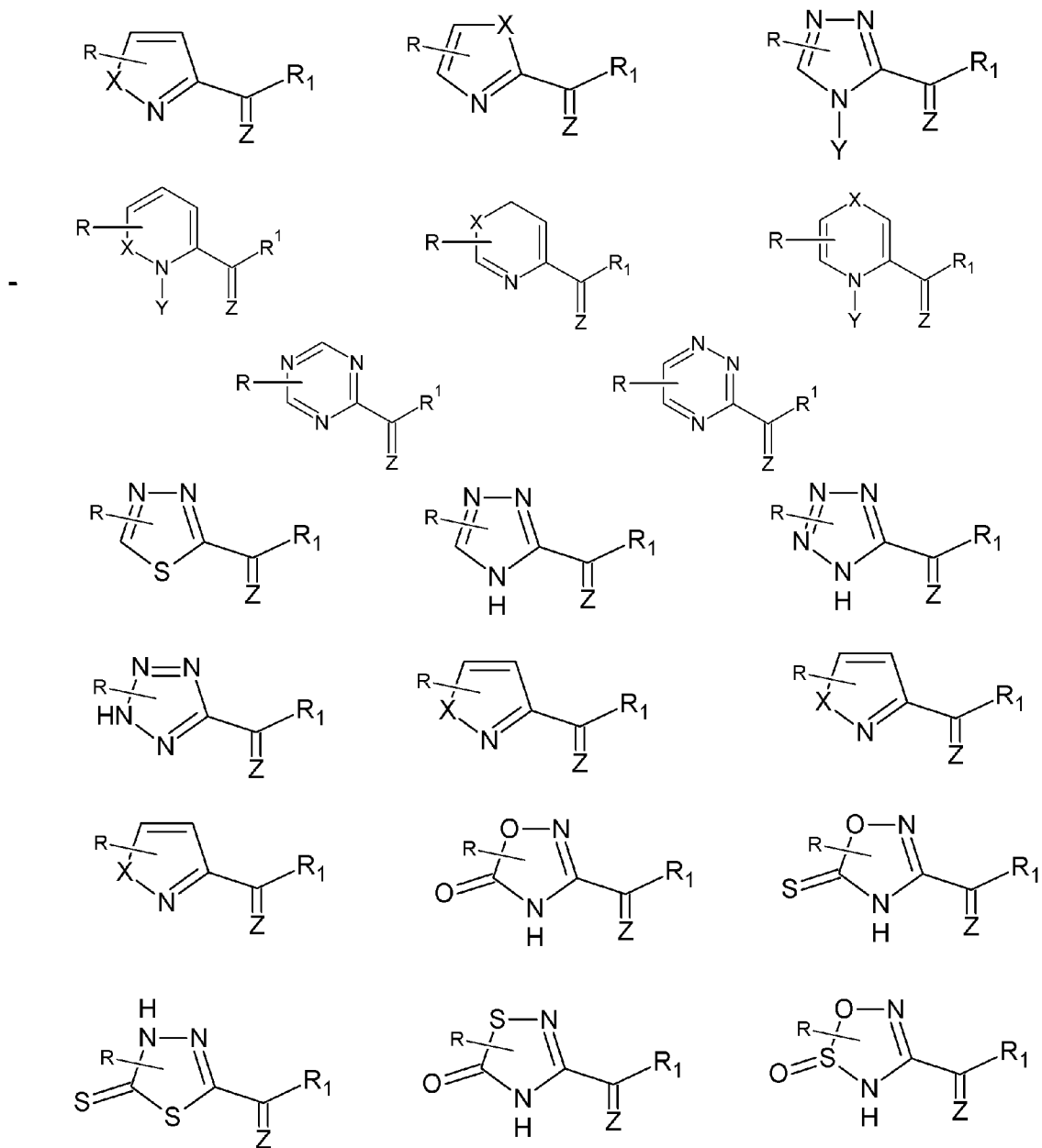


Figure 8. N - Heterocyclic Alkyl Ketone MMP Inhibitors with Additional Heteroatoms

REPLACEMENT SHEET

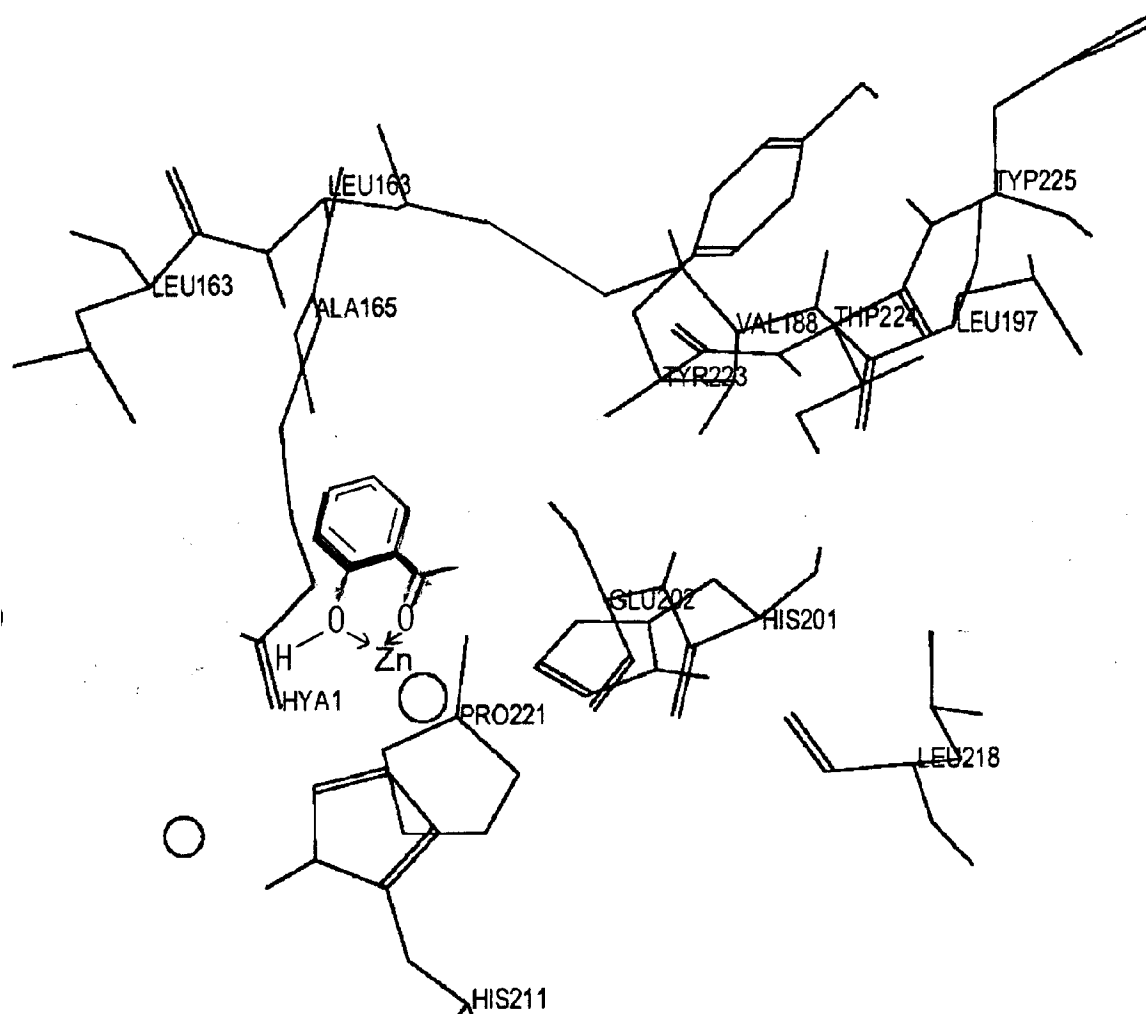


Figure 9. Proposed Inhibition of the Active-Site of MMP by Hydroxyaryl Alkyl Ketones